



# 3099

Diag. ch. No. 5302-1

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Department of Commerce and Labor  
COAST AND GEODETIC SURVEY

*O. H. Pittman*  
Superintendent.

State: *California*

DESCRIPTIVE REPORT.

*H* Sheet No. *3099*

LOCALITY:

*Point Arguilla*  
*to Pt. Richon*

1910

CHIEF OF PARTY:

*H. C. Librell*

3099

3099

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DEPARTMENT OF COMMERCE AND LABOR

Coast and Geodetic Survey

O. H. Tittmann, Sup't.

Hydrographic Sheet No.....

( Field Letter "E" )

POINT ARGUELLO TO POINT BUCHON

CALIFORNIA

STEAMER EXPLORER

Assistant Walter C. Dibrell, Chief of Party

Begun ....: February 8, 1910.

Completed: February 18, 1910.

SCALE 1 - 100 000

Hydrography in charge of Walter C. Dibrell, Assistant

Positions plotted by Walter C. Dibrell, Ass't.

Soundings " " " " " "

*inked & surface by H. L. Simmons*

# 3099

HYDROGRAPHIC SHEET NO. "E"

POINT ARGUELLO TO POINT BUCHON

OBSERVERS:

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Walter C. Dibrell, Assistant

F. H. Hardy, "

A. R. Hunter, Watch Officer

S. W. Tay, Aid

W. B. Dunning "

A. C. Baldwin Deck Officer

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RECORDERS:

H. L. Hansen, Ch'f Writer

William Duker, Writer 2 cl.

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LEADSMAN:

Emil Moem, ..... Qmr. 1 cl.

B. Ramberg ..... " 2 "

John G. Hanson.. " 2 "

Oscar Hanson ... " 2 "

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No tides observed

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*Soundings are in fathoms*

3099

# DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC

C. & G. SURVEY,  
LIBRARY AND ARCHIVES

APR 13 1910

Ass. No.

SHEET No. .... (FIELD LETTER "E") POINT ARGUELLO TO

COAST AND  
GEODETIC SURVEY

APR 13 1910

REFERRED TO:  
*Assistant in Charge.*

POINT BUCHON, CALIFORNIA

SCALE 1 - 100 000

RECEIVED  
BY ASSISTANT IN CHARGE  
AND REFERRED TO

APR 13 1910

*L. J. Smith*

This sheet shows a part of the offshore hydrography executed by the party of the EXPLORER between the limits indicated in the title, and includes soundings made in the locality off Point Arguello where the existence of a bank was reported by the Commanding Officer of the U. S. S. St. LOUIS. The instructions for this work, exclusive of the examination for the reported bank, called for the extension of the soundings from the present charted limits to the 100 fathom curve. This was done as far as the work progressed, excepting that off Point Arguello the soundings necessarily extend much farther out, and there reach a depth of nearly four hundred fathoms. The whole of the work has not been completed at the end of the season.

2. Off San Luis Obispo Bay the hydrography will be shown on sheets "D" and "F", constructed upon larger and more convenient scales. Between Point Buchon and Point San Luis are a few soundings (half - a - day's work) that will be shown on the sheet. These soundings adjoin those at the north-western limit of sheet "F" but can not be plotted thereon for the reason that some of the signals used are beyond the edge of the sheet.

3. The southern limit named in the instructions for offshore hydrography is Point Arguello, but, in order to disprove the existence in that locality of the reported bank, a considerable area was covered leaving a small blank space southward of Point Arguello between the old work and the new. This was filled in, adding much to the appearance of the chart and affording control of the depth

curves out to two hundred fathoms.

4. From the southern limits up to the parallel of 34° - 40' (5 1/2 miles north of Point Arguello) the development is complete. Between this and the southern limit of the work plotted on sheet "F," a stretch of about 17 nautical miles, no soundings have been made, excepting that southward of Point Sal there are two lines run parallel to the shore shown on this sheet, which reduce appreciably the breadth of the area to be covered.

5. The positions of the soundings depend upon sextant angles observed to objects on shore and dead reckoning was not used, excepting in a few cases where a position was missed and was interpolated between adjacent positions. Numerous check angles were observed and no doubt remains as to the identity of the objects used. From the San Francisco sub-office were obtained without delay tracings of all the topographic sheets covering this part of the coast, and these tracings proved of great value in facilitating the prosecution of the work and in furnishing data for its thorough control. By the aid of the topographic tracings a sufficient number of definite summits and other objects were selected for use as hydrographic signals and were identified from off shore, avoiding the necessity of landing parties to recover old stations or erect artificial signals. Two new objects ("Surf" and "Tree"), <sup>were</sup> determined by sextant angles observed from the ship, and the cuts will be found in the sounding record.

6. Chart No. 5300 was used as a boat sheet, but proved so unsatisfactory that a projection was constructed on a scale of 1 - 100 000 (double the scale of the chart), based upon U.S. Standard datum, and soundings (excepting "A" day near Point Buchon) have all been plotted thereon. The projection was intended for use as a

boat sheet, but the positions have been carefully plotted, and since it so happens that no sounding has been done within the limits of the sheet subsequent to its preparation and it has therefore not been exposed to dampness or to weather, it is believed that it will make an acceptable smooth sheet. I assumed chart No. 5300 to be based upon the Yolo datum and attempted to plot some of the triangulation points upon it by geographical coordinates. The datum appeared to be appreciably in error, however, and the positions of hydrographic signals on the chart boat sheet are quite unreliable. The soundings plotted on that boat sheet appear to be approximately correct, and it is believed that the sheet shows fairly the relation of the new work to the old.

7. No banks, shoals or marked irregularities of practical interest to navigation were found in the course of the hydrographic work shown upon this sheet. The depth curves indicate submerged valleys in places but none of much importance. There are no indications of banks or shoals.

8. As previously reported, "St. Louis Bank" was found not to exist in its charted position. Little more can be said in regard to it; the examination is thorough and complete, and the plotted soundings speak for themselves.

Respectfully submitted,



Assistant, C. & G. Survey,

Chief of Party.

San Francisco, Cal.,

March 21, 1910.

# STATISTICS

3099

LIBRARY ARCHIVE  
APR 1910  
Acc No.

Date 1910	Vol.	Let.	Miles (Stat.)	Sdgs	Angles	Boat	
Feb. 8	1	A	23.0	28	56	EXPLORER	
" 9	1	B	26.3	39	76	"	
" 10	1	C	44.0	54	124	"	
" 11	1	D	50.8	41	90	"	
" 12	1	E	49.7	50	125	"	
" 17	1&2	F	40.5	45	107	"	
" 18	2	G	30.0	40	84	"	
Totals	2	7	264.3	297	662		

V.E.C.  
May 26, 1910.

HYDROGRAPHIC SHEET 3099.

Point Arguello to Point Bychon, California, by  
Asst. W. C. Dibrell in 1910.

TIDES.

Mean lower low water or plane of reference  
below mean sea level = 2.8 ft.

Mean rise and fall of tides = 3.7 "

Predicted tides were used for reduction of soundings.

Coast and Geodetic Survey  
MAY 26 1910  
TIDAL DIVISION.



Hyd Sheet No 3099

June 28 1910

This survey, which was for the purpose of locating  
a reported tank off Pt Aguello, shows no  
marked irregularities within the area covered.

The records are clear and well kept.

H. L. Simmons